

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

024002 024403 024407 623104 622501 OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

August 9, 1993 642401

MEMORANDUM

SUBJECT: Transmittal of EFED RED Chapter for Copper Salts and

Copper Oxides, Cases 4025 and 4026

FROM:

Evert Byington, Chief $lap{\checkmark}$

Science Analysis and Coordination Staff

Environmental Fate and Effects Division (H7507C)

TO:

Jay Ellenberger, Chief

Accelerated Reregistration Branch

Special Review and Reregistration Division (H7508W)

Attached please find the following documents for the completed EFED RED Chapter for Copper Salts and Copper Oxides.

EFGWB summary report with data tables.

2. EEB summary report with data tables.

3. SACS combined RED chapter.

If you have any questions concerning this case, please contact Mary Frankenberry at 305-5694.

cc (with SACS Chapter attached)

Anne Barton RED File

Chemical File

Hank Jacoby

Tony Maciorowski





SACS REREGISTRATION SUMMARY REPORT for Phase IV

THRU: Evert Byington, Chief, SACS	Date:	8/4/93
TO: Kathy Davis/Kathy Depukat, SRRD/ARB		
Active Ingredient:	List	D

Copper Salts and Oxides

Intro/History

Cases #4025 and #4026 are taken together in this memo, as data requirements are grouped for these chemicals by use. The compounds are used variously as bacteriocides/bacteriostats, fungicides, algicides, herbicides, insecticides, repellants/feeding depressants, and antifoulants/preservatives over a wide range of applications. The following chemicals are considered, with uses listed below, and a brief summary of the Environmental Fate and Ecotox data required.

1) COPPER OXINE--(#024002)--Terrestrial Nonfood; Outdoor Residential; Indoor Food, Non-food, Residential

<u>Fate Requirements</u>--Release rate (or Availability) Special Study
Data on Persistence in Terrestrial envirs.
Other applicable Fate studies <u>Reserved</u>

Ecotox Regs. -- Aquatic Plant Growth (123-2) Reserved
Other applicable Ecotox studies Reserved

2) COPPER TRIETHANOLAMINE--(#024403)--Aquatic Food, Non-food Outdoor, Non-food Industrial, Non-food Residential; Indoor food

<u>Fate Requirements</u>--Data on Persistence in Aquatic Envirs.
Other applicable Fate studies <u>Reserved</u>

Ecotox Regs. -- Aquatic Plant Growth (123-2) Reserved

3) COPPER ETHYLENEDIAMINE -- (#024407) -- Aquatic Food, Non-food Industrial, Non-food Residential

<u>Fate Requirements</u>--Data on Persistence in Aquatic Envirs.
Other applicable Fate studies <u>Reserved</u>

Ecotox Regs. -- Aquatic Plant Growth (123-2) Reserved

4) COPPER SALTS OF FATTY AND ROSIN ACIDS--(#023104)--Terrestrial Food, Feed, Non-food; Aquatic Non-food Industrial; Greenhouse Non-food

Fate Requirements--Release rate (or Availability) Special Study
Data on Persistence in Terr. & Aquat. envirs.
Other applicable Fate studies Reserved

Ecotox Regs. -- Seed Germ. / Seedling Emerge (123-1a)

Vegetative Vigor (123-1b)

Aquatic Plant Growth (123-2) Reserved

Other applicable Ecotox studies Reserved

5) CUPROUS THIOCYANATE--(#025602) -- Aquatic Non-food Outdoor

Fate Requirements--Release rate (or Availability) Special Study
Data on Fate in Terr. & Aquat. envirs.
Other applicable Fate studies Reserved

Ecotox Regs. -- Aquatic Plant Growth (123-2) Reserved
Other applicable Ecotox studies Reserved

6) METALLIC COPPER--(#022501)--Terrestrial Food, Feed, Non-food;
Aquatic Non-food Outdoor, Non-food Residential; Outdoor
Residential

Fate Requirements -- Release Rate (or Availability) Special studies

Ecotox Regs. -- Reserved: Estu/Mari Studies (72-3d,e,f)
Life Cycle Studies (72-4a,b)

Aquatic Plant Growth (123-2)

Required: Seed Germ/Seedling Emerge (123-1a)

Vegetative Vigor (123-1b)

CUPROUS OXIDE--(#025601)--Terrestrial Food, Feed, Non-food; 7) Aquatic Non-food Outdoor

Fate Requirements -- Release Rate (or Availability) Special studies

Estu/Mari Studies (72-3d,e,f) Ecotox Regs. -- Reserved:

Life Cycle Studies (72-4a,b) Aguatic Plant Growth (123-2)

Seed Germ/Seedling Emerge (123-1a) Required:

Vegetative Vigor (123-1b)

CUPRIC OXIDE--(#042401)--Terrestrial Food, Feed, Non-food; 8) Aquatic Non-food Industrial

Fate Requirements -- Release Rate (or Availability) Special studies

Estu/Mari Studies (72-3d,e,f) Ecotox Regs. -- Reserved:

Life Cycle Studies (72-4a,b) Aquatic Plant Growth (123-2)

Seed Germ/Seedling Emerge (123-1a) Required:

Vegetative Vigor (123-1b)

415004-01 Please note that the Avian Reproduction studies that were conducted for Copper II compounds were found to be acceptable and will satisfy requirements for the copper salts and oxides. avian reproduction testing is required for these compounds. This change has been marked on the branch chapter.

Please also note that where Aquatic Plant Growth may be required in the future, testing will be required of only one of the five species. In addition, where "data on persistence" or "data on environmental fate" are requested in the Fate chapter, this refers to information the registrants may have relating to dissipation of Information in public the organic moiety in the environment. literature may be adequate to demonstrate the route of dissipation. For paint formulations, specific guideline studies may be required, pending results of the release rate studies.

If you need further clarification, please call me at 305-5694.

DP Barcode : D187146, D187162

D187135, D187154, D187178

PC Code No : 024002

EEB Out

MAR 1 7 1993

KATHRYN DAVIS To:

Product Manager 52

Special Review and Reregistration Division (H7508W)

From: Anthony F. Maciorowski, Chief

Ecological Effects Branch/EFED (H7507C)

Attached, please find the EEB review of ...

REREG CASE NO: 4026 LIST D : 024002 Reg./File # Chemical Name : COPPER SALTS Type Product Product Name Company Name CONSIDER USES AND IDENTIFY DATA REQUIREMENTS Purpose FOR REREGISTRATION FOR EACH COPPER SALT, PREPARE RESPONSE COMBINING ALL COPPER SALT REQUIREMENTS 2-17-93 Action Code : 602 Date Due Reviewer : MIKE REXRODE _Date In EEB: _ 1-26-93

GDLN NO	MRID NO	CAT	GDLN NO	MRID NO	CAT	GDLN NO	MRID NO	CAT
71-1(A)			72-2(A)			72-7(A)		
71-1(B)			72-2(B)			72-7(B)		
71-2(A)			72-3(A)			122-1(A)		
71-2(B)			72-3(B)			122-1(B)		
71-3			72-3(C)	<u> </u>		122-2		
71-4(A)			72-3(D)			123-1(A)		
71-4(B)			72-3(E)			123-1(B)		
71-5(A)			72-3(F)		_	123-2		
71-5(B)			72-4(A)			124-1		
72-1(A)			72-4(B)			124-2		
72-1(B)			72-5			141-1	,	
72-1(C)			72-6	ļ		141-2		
72-1(D)						141-5		

Y=Acceptable (Study satisfied Guideline)/Concur P≖Partial (Study partially fulfilled Guideline but additional information is needed

S=Supplemental (Study provided useful information but Guideline was not satisfied)

M=Unacceptable (Study was rejected)/Nonconcur